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INTER-OFFICE CORRESPONDENCE

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To: . Mrs. Barbara S. Mait Date: January 15, 1990

From: . Judith G. Lightner

Subject: . Accomplishments for 1989

The accomplishments for 1989 for the Smoking Laboratory are as follows:

I. SMOKING LABORATORY - GENERAL

A. Tar and nicotine deliveries for several different smoking procedures and methods were determined. The objective of this testing was to provide data for comparative purposes. Regression curves were established for each method. In addition to the FTC method, testing included the following methods: ISO, DIN, TIOJ, CPM, UK and Canada.

B. A collaborative study of a revised cigarette (filter) holder for CORESTA was completed. The objective of this study was to assess different types of cigarette holders for determining smoke deliveries of Barclay type cigarettes in Europe.

C. Evaluation of tar and nicotine deliveries for Philip Morris and competitive brands was determined for the purpose of supporting advertising claims in Japan and Thailand. This testing was done in conjunction with U.S. Testing. Also, a survey of twenty-six brands from Korea was performed for advertising purposes.

D. A study was completed with QA and R&D to assess the use of trim adapters versus precut dental dams. The objective of this study was to determine if there were any significant differences when smoking 17 mm circumference cigarettes with precut dental dams versus the trim adapters. No significant differences were observed.

E. Samples were submitted and smoked for FTC tar for Round Robin Testing. This testing was to compare the C.I. Laboratories in Latin America, Philippines and PM USA.

F. As of 1990, the Japanese Government will require that "all paper rolled tobacco products domestically marketed" must be labeled with tar and nicotine figures for advertising purposes. Testing for all brands currently in the Japan C.I. Report and some selected minor brands were monitored and smoked by both the FTC and Japan modified (ISO) TIOJ method of smoking.

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G. The calibration for Industry Monitor #13 for FTC and ISO smoking was completed. Statistical data were established using the Statistical Process Control procedures. This monitor will be used by all major cigarette companies. ISO Monitor #2 was also calibrated and statistical data established.

H. A test comparing the static burning of eight cigarettes versus 16 cigarettes was performed to determine if there were any significant differences in burning eight cigarettes versus 16 cigarettes per sample. No significant differences were observed.

I. Rotation of personnel between the Smoking Laboratory and Sample Preparation was ongoing. This is done to provide versatility and flexibility of personnel by keeping them abreast of changes in methods and procedures.

J. As of December, 1989, the Smoking Laboratory began using control charts to assist in monitoring the smoking machines and controlling variation.

II. LABORATORY AUTOMATION - EQUIPMENT

A. An updated version of the 20-port static burn machine was installed to accommodate static burning requests. This machine now has twice the capacity (40 ports).

B. A Borgwaldt smoking machine with an electrostatic trap was installed to accommodate the DIN smoking methods.

C. Two cubicles in the Smoking Laboratory now have the capacity to switch from FTC conditioning (75°F, 60% RH) to ISO conditions (71.5°F, 60% RH).

D. Five Borgwaldt electric lighters were purchased and are in use in the Smoking Laboratory. These lighters have proven more economical and safer than the BIC type lighters and represent a cost savings of over $2,000.00.

III. ROUTINE ANALYSES

The following routine analyses were provided:

A. TPM/Puff Count
B. Filtration Efficiency
C. Filler Rod TPM
D. Smoke Deliveries per Puff
E. Static Burning Time

IV. PERSONAL

The following meetings and courses were attended:

1. North American Smoking Machine Users Group Meeting (10-2-89).

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2. QA and R&D Meetings
3. Basic Techniques of Statistical Process Control

V. MISCELLANEOUS

Visitors to the Smoking Laboratory last year were:

Mr. Alan Wong - Hong Kong
Mr. Tom Askew - TTG
Mr. Cliff Rumbald
Mr. Saud Bob Tain
TIOJ Delegation
Mr. Paul Hendry - Sales Director, PMI Germany
Engineering Personnel from the Manufacturing Center
Leo Burnett personnel
PM's wholesalers from the Caribbean
Kraft VP's
Tobacco Farmers from N.C. State
JTI Managers
Dr. Borsos - Director of Hungarian Tobacco Research
Dr. Kendra, VP of H.T.R.I. from Michigan State

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Jacob G. Lygitsos

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